

Evans School Research

Charge

- > Analyze alternatives for ticketing/loading at Fauntleroy ferry terminal
- > Explore ways to improve community engagement and understanding

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Research Approach

- > Gather Information
- > Develop Criteria
- > Identify Operational Alternatives
- > Compare Alternatives
- > Assess Community Engagement
- > Consider Cross-Cutting Issues
- > Distill Recommendations



Gathering Information to identify and refine Alternatives and Criteria

- > Direct observation: vessels/docks
- > Stakeholder interviews
- > Public meetings
- > Data collection
 - > WSF records and observations
 - > Reports, Surveys
 - > Fleet Advisories
 - > Executive Order

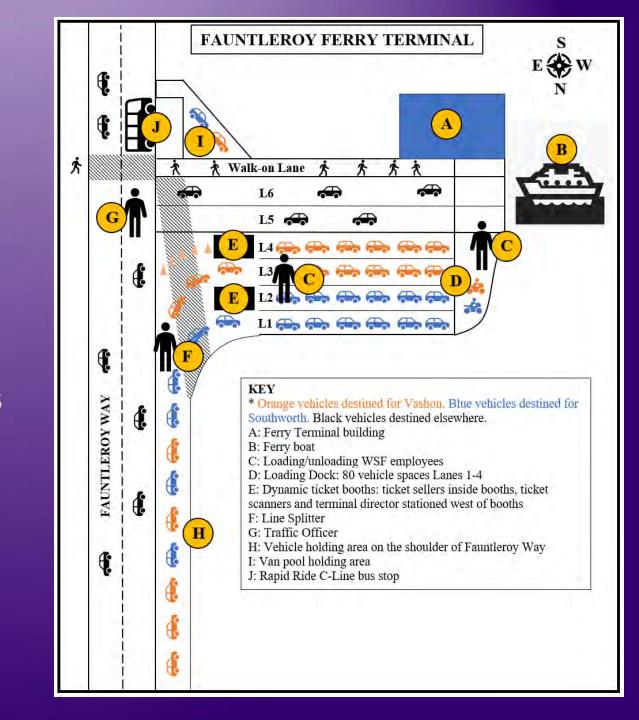


Triangle Route: Superlatives in the WSF System

- 1. Fauntleroy is oldest and smallest dock in the system
- 2. Vashon-Fauntleroy leg: Highest percentage of single occupancy vehicles (SOVs) in the entire system
- 3. Southworth-Fauntleroy ridership grew faster in 2017 than ridership on any other leg in the system

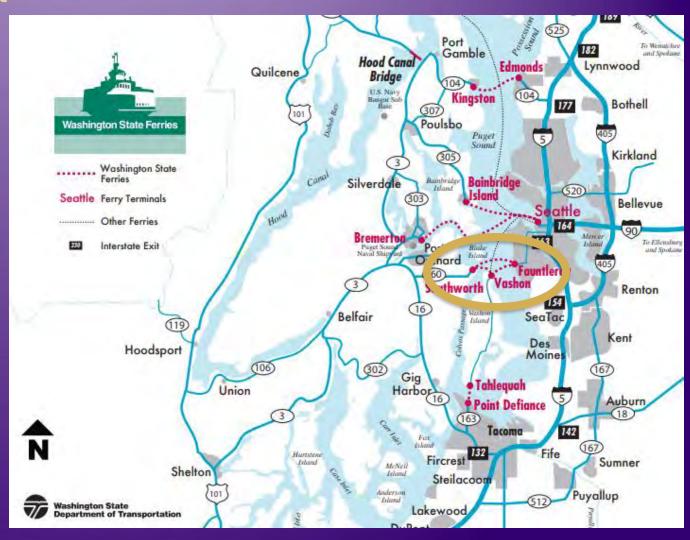
Fauntleroy Dock

- > 80-car dock, 124-car boats
- > One vehicle holding lane
- > One boat-slip, two destinations
- > Two toll booths
- > Limited wireless connectivity



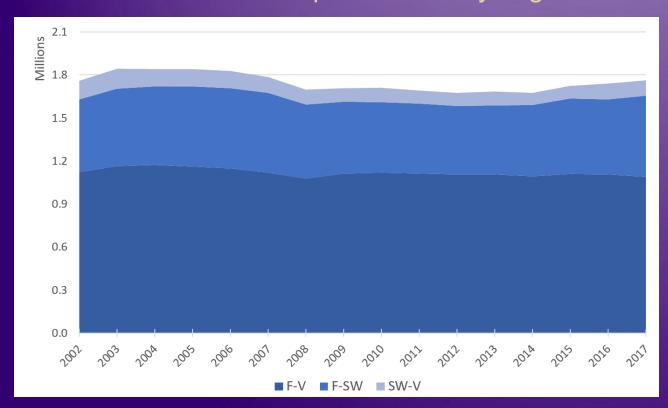
Stakeholder Environment

- > 3 communities with distinct perspectives and needs
- > Multiple city and county jurisdictions
- > Multiple operational partners



Population and Ridership Trends

Total Ridership Over Time by Leg



Ridership Change from 2012 - 2017



Narrowing the Range of Alternatives

		CRITERIA							
		Community Satisfaction/ Relationship	Ability to Meet Demand	Equity	Safety	Farebox Recovery			
	Status Quo								
	Implement Good To Go! System								
ALTERNATIVES	Reinstitute Bypass Lane								
ALTERN	Improve WiFi/Scanner Connectivity and Implement Upstream Mobile Transactions								
	Improve Training, Management, and Retention of Triangle Route Staff								
	Staff a Second Traffic Officer at Fauntleroy Dock During Rush Hour								

Environmental Sustainability: A cross-cutting criterion

- > Gov. Inslee Executive Order 18-01 (calls for reduction in GHG emissions)
- > Ticketing and Loading Recommendations
 - > Decrease wait times/lines = > decreased idling = >decreased CO2 emissions
- > System-wide Environmental Considerations
 - > Schedule interacts with on-time performance
 - > Electrify fleet
 - > Provide incentives for walk-on passengers vs. drive vs. SOV
 - > Infrastructure interacts with eco-system impacts

Comparing the Alternatives

		CRITERIA						
		Community Satisfaction/ Relationship	Ability to Meet Demand	Equity	Safety	Farebox Recovery		
ALTERNATIVES	Status Quo							
	Implement Good To Go! System							
	Reinstitute Bypass Lane							
	Improve WiFi/Scanner Connectivity and Implement Upstream Mobile Transactions							
	Improve Training, Management, and Retention of Triangle Route Staff							
	Staff a Second Traffic Officer at Fauntleroy Dock During Rush Hour							

Scoring Alternatives on Environmental Sustainability

- > GTG and other direct loading approaches result in less CO₂ emissions
- > GTG and other direct loading could incent sail rather than drive
- > Staff training, management and retention improvements can result in small gains on environmental margins
- > Environmental considerations trade off with dwell time and vessel speed

System-Wide Considerations

- > Community understanding
- > Performance measures
- > Infrastructure
- > Schedule
- > Finance and budget
- > Data Limitations



Cross-Cutting Recommendations

- 1. Improve staff training, management, and retention
- 2. Revise WSF's performance measures
- 3. Improve data collection and analysis
- 4. Refine community engagement strategies

Improving Community Engagement

- 1. Customize community engagement
- 2. Cross-community consultation
 - Revise Ferry Advisory Committees
 - Dialogues facilitated by a neutral party
- 3. Expand WSF's social media presence
- 4. Increase public information and outreach vessels, terminals
- 5. Smart-phone app: real-time estimates of wait times



Ticketing and Loading Recommendations

- > Short-Run
 - > Fast track vehicle loading
- > Long-Run
 - > Direct Loading via Good To Go!



Recommendation Requirements: Fast Track Loading

- > Connectivity: Better wifi coverage or mobile data access
- > Technology: updated mobile devices
- > Personnel: 2nd traffic officer, roving dock-staff position
- > Funding and authorization for the above

Recommendation Requirements: Good to Go!

- > Fare Simplification
 - > Car+Driver or Car+Driver+Passenger(s); vehicle size
 - > Need to compensate for lost passenger fares
 - > Possible equity implications for SOVs (Vashon), but also incentives to carpool
- > Infrastructure: Cameras that record low-speed, tight-flow traffic
- > Coast Guard / Homeland Security procedures
 - > Headcount
 - > Vehicle screenings
- > Funding and authorization for the above EVANS SCHOOL OF PUBLIC POLICY & GOVERNANCE UNIVERSITY of WASHINGTON

Questions?